From the: INTERNATIONAL SEARCHING AUTHORIT	'Y			
To:		1	PCT	
Lee, Ai Ming 80 Rafiles Place #33-00 UOB Plaza 1 Singapore 048624			ITEN OPINION OF THE NAL SEARCHING AUTHORITY	
			(PCT Rule 43bis.1)	
		Date of mailing (day/month/year)	1 4 SEP 2004	
Applicant's or agent's file reference		FOR FURTHER ACT	TION See paragraph 2 below	
LAM/24677.1	The state of the s			
International application No. PCT/SG2004/000161	International filing date 31 May 2004	c (day/month/year)	Priority date (day/month/year) 2 June 2003	
International Patent Classification (IPC) or	· · · · · · · · · · · · · · · · · · ·	etion and IPC		
Int. CL. 7 F03B 13/00, 9/00, 17/06				
Applicant				
MUI, Chin Pang Richard	•			
1. This opinion contains indications relat	ing to the following its	ems:		
Box No. I Benis of the opinion	•			
Box No. II Priority				
1 1251	of opinion with regard to	novelty, inventive step a	nd industrial applicability	
Box No. IV Lack of unity of inv	contion	•		
	under Rule 43 bis.1(2)(i) ations supporting such s		uventive step or industrial applicability;	
Box No. VI Certain documents				
Box No. VII Certain defects in the	e international application	70		
Box No. VIII Certain observations	s on the international app	olication		
		•		
2. FURTHER ACTION				
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has norified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.				
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.				
For further options, see Form PCT/ISA/220.				
3. For further details, see notes to Form PCT/ISA/220.				
Name and mailing address of the IPEA/AU		Authorized Officer		
AUSTRALIAN PATENT OFFICE				
PO-BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au		R. SUBBARAYAN Telephone No. (02)		
I markette via consideration	, ,	Telephone No. (UZ) (1403 43	

Form PCT/ISA/237 (Cover sheet) (January 2004)

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/SG2004/000161

To.	x No. 1 Basis of the opinion
Ба	X 140.1 Basis of the ophthod
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2 .·	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material
	a sequence listing
	table(s) related to the sequence listing
	b. format of material
	in written format
	in computer readable form
	c. time of filing/furnishing
	contained in the international application as filed. filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/SG2004/000161

Box	No. 1	III. Non-establishment	of opinion with regard to novelty, inventive step and industrial applicability
The indu	quest strial	tions whether the claimed in ly applicable have not been	vention appears to be novel, to involve an inventive step (to be non obvious), or to be examined in respect of:
		the entire international appl	lication
	X	claims Nos: 22-23	•
	bece	use:	·
		the sald international applic	ration, or the said claim Nos.
		relate to the following subj	ect matter which does not require an international preliminary examination (specify):
		•	
		•	·
	 -1	the description electron or d	rawings (indicate particular elements below) or said claims Nos.
	لنا	•	ingful opinion could be formed (specify):
			•
			·
		the claims, or said claims N	_
	X		ed by the description that no meaningful opinion could be formed. If has been established for said claims Nos. 22-23
			•
		Administrative Instructions	acid sequence listing does not comply with the standard provided for in Annex C of the in that:
	t	he written form	has not been furnished
			does not comply with the standard
	ŧ	te computer readable form	has not been furnished
			does not comply with the standard.
			lectide and/or amino acid sequence listing, if in computer readable form only, do not comply ema provided for in Annex C-bis of the Administrative Instructions.
		See Supplemental Box for i	further details.

Form PCT/ISA/237 (Box No. III) (January 2004)

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/SG2004/000161

Box No. IV Lack of unity of invention
1. In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has:
paid additional fees
paid additional fees under protest
not paid additional fees
2. X This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
3. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is
complied with
not complied with for the following reasons:
Claims 1-21 are directed to a portable hydro-generator including a curved tubular housing with a drive portion and a return portion, and a plurality of paddles wherein the drive portion has a larger diameter than the return portion. It is considered that the drive portion having a larger diameter comprises a first "special technical feature".
Claims 22-23 are directed to a paddle, adaptable to be used in the invention of claim 1 wherein the paddle includes seals to prevent leakage and studs to increase the effective surface area. It is considered that these features of the paddle comprises a second special technical feature. Please note that the words adaptable to be used in the invention of claim 1 does not limit the scope of claim 22 to include the features of claim 1.
These groups are not so linked as to form a single general inventive concept, that is, they do not have any common inventive features, which define a contribution over the prior art. The common concept linking together these groups of claims is a paddle having a linkage to allow attachment to a subsequent paddle. However this concept is not novel in the light of many specifications eg. GB 2267317 A (Mirza) 1 December 1993. Therefore these claims lack unity a posteriori.
· ·
4. Consequently, this opinion has been established in respect of the following parts of the international application:
all parts
X the parts relating to claims Nos. 1-21

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/SG2004/000161

Box No.	. V Reasoned statement un applicability; citations :	der Rule 43 <i>bis</i> .1(a)(i) with regard to nov and explanations supporting such staten	elty, inventive step or industrial neut
1. Stat	tement		
	Novelty (N)	Claims 1-21	YES
		Claims	NO
	Inventive step (IS)	Claims 1-21	YES
	Weimes greb (vi)	Claims	. УО
			YES
	Industrial applicability (IA)	Claims 1-21 Claims	NO

2. Citations and explanations:

None of the documents cited in the International Search Report discloses a portable hydro-generator with the features as claimed. The claimed invention is considered novel, inventive and industrially applicable.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/SG2004/000161

		the international application
ROY NO. VIII	Certain observations of	I the biteringon - 41

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

- 1) In claim I the definition "an inlet means to allow said fluid" lacks clarity because it is unclear whether 'said fluid' refers to the driving fluid
- 2) Claim 7 lacks clarity because the definition "the drop-off point" has no clear antecedent.
- 3) Claims 7 and 13 lack clarity as is not also clear what is meant by "drop-off point".